

205
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REEL

547

STEFANOV, T.

STEFANOV, T.

Investigating the ventilation of the Severen mine of the Tvarditsa State Mine Enterprise. p. 181.

Sofis, Bulgaria, Nauchnoizsledovatel'ski institut za kamenovuglenata promishlenost.
GODNISHNIK, Sofia, Vol. 2, 1958

Monthly List of East European Accessions (EEAI) LC, Vol. 6, No. 10, ^{Oct.} 1959.
Uncl.

STEFANOV, T.

Some basic conditions for air movement in the mining shafts. p. 32
Minno Delo Vol. 13, No. 3, May/June 1958, Sofia, Bulgaria.

Monthly Index of East European Accessions (EIAI) LC, Vol. 7, No. 10,
Oct. 58.

STEFANOV, T.; KARYAKIN, P.

Interfarm gypsum production enterprise. Sil'.bud. 11 no.6:16-17
Je '61. (MIRA 14:7)

1. Predsedatel' soveta Khmel'nitskogo oblmeshkolkhozstroya (for Stefanov). 2. Direktor Rikhtenskogo meshkolkhoznogo gipsovogo zavoda (for Karyakin).

(Gypsum)

STEFANOV, T., inzh.

An injecting irrigation device. Nauka i tekhn mladezh
15 no.10: 15-16 0'63.

1. Glaven inzh. v MTS, s. Sungurlare, Burgaski okrug.

STEFANOV, Todor, inzh.

Determining aerodynamic resistance of round reinforced concrete frames according to modeling method. Tekhnika Bulg 10 no.8:17-18 '61.

1. Minno-geolozhki institut, Sofia.

(Aerodynamics) (Reinforced concrete)

STEFANOV, Todor M. (Plovdiv)

Manufacture or resistance thermometers and recalibration of
ratiometers. Elektroenergiia 16 no.1:26-27 Ja '65.

STEFANOV, Toma

Economic effectiveness of introducing some valuable varieties of soft winter wheat. Selskostop nauka 1 no.4/5:415-420 '62.

1. Durzhavna sortova komislia.

STEFANOV, Ts. L.

STEFANOV, Ts. L.: "The working process of a high-speed Diesel engine with pressure feed with various methods of mixture formation." Min Higher Education USSR. Leningrad Polytechnic Inst imeni M. I. Kalinin. Leningrad, 1956. (Dissertation for the Degree of Candidate in Technical Sciences).

Source: Knizhnaya letopis' No. 28 1956 Moscow

STEFANOV, T.

Mechanized tile workshop. Sil'.bud. 13 no.10:12-13 0 '63.

(MIRA 17:3)

1. Predsedatel' soveta Khmel'nitskoy oblastnoy mezhkolkhoznoy stro-
itel'noy organizatsii.

STEFANOV, Vucho, inzh.

The Vaiont Dam. Khidrotekh i melior 8 no. 10:316-317 '63.

ACC NR: AP7000396

SOURCE CODE: UR/0386/66/004/009/0355,0358

AUTHOR: Stefanov, V.; Simova, P.; Kircheva, P.

ORG: none

TITLE: Polarization of anthracene fluorescence excited by two photons

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 4, no. 9, 1966, 355-358 (and insert)

TOPIC TAGS: anthracene, fluorescence, light excitation, photon, laser application, light polarization

ABSTRACT: The authors present some new results of an investigation of the polarization of fluorescence of anthracene single crystals excited with red light from a ruby laser with output energy 0.04 J (Fig. 1). The anthracene single crystals were produced by sublimating pure anthracene in air. The polarization of the two-photon absorption was investigated by placing a polarizer in the path of the laser beam. The single crystal, whose optical axes were determined beforehand, was placed in a special holder, which made it possible to align one of its optical axes with the oscillation direction of the laser beam by rotating

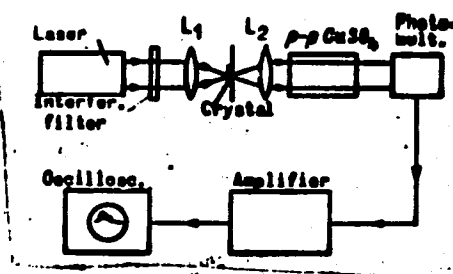


Fig. 1. Diagram of test setup

Card 1/2

ACC NR: AP7000396

the crystal. To investigate the influence of the temperature, the crystal was placed in a cryostat. Measurements at room temperature have shown that the fluorescence intensity is 1.8 times larger when the b axis of the crystal coincides with the laser beam oscillation direction. From this it is concluded indirectly that in the case of the two-photon mechanism the anthracene crystal absorbs more strongly in the same direction (b axis) as in the case of the single-photon mechanism. Measurements of the polarization of the fluorescence excited by two-photon absorption have shown that at room temperature the fluorescence polarized along the b axis was 2.5 time more intense than the fluorescence also shows that as the temperature decreases to -196C the fluorescence of different anthracene single crystals obtained by sublimation in air can exhibit different variations, with some samples exhibiting an increase in the "fast" fluorescence, and others a decrease. This can be attributed to the presence in the anthracene crystals of O-centers obtained by photooxidation of the anthracene as the latter is sublimated in air. To check on this interpretation, the authors are continuing the investigation of the temperature dependence of two-photon fluorescence of anthracene. Orig. art. has: 2 figures and 1 table.

SUB CODE: 20/ SUBM DATE: 20Jul66/ ORIG REF: 001/ OTH REF: 010
ATD PRESS: 5107

Card 2/2

STEFANOV, V.

Amplifying vacuum tube. p. 40 Radio. (Ministerstvo na poshtite, telegrafite, telefonite i radioto i Tsentralniia sovet na dobrovolnata organizatsiia za subeistvie na otbranata) Sofiya. Vol. 5, No. 4, 1956

SCURCE: East European Accessions List (EEAL) Library of Congress, Vol. 5, No. 11, November 1956

STEFANOV, V.

"Resonance curves of a single oscillating circuit at modulated voltage."

IZVESTIIA. SERIIA FIZICHESKA, Sofia, Bulgaria, Vol. 6, Jan./Dec. 1956
(published 1957).

Monthly List of East European Accessions Index (EEAI), The Library of
Congress, Volume 8, No. 8, August 1959.

Unclassified

BULGARIA/Nuclear Physics - Nuclear Reactions.

C

Abs Jour : Ref Zhur Fizika, No 9, 1959, 19837

Author : Stefanov, V. Jor.

Inst :

Title : Thermonuclear Fusion and Reactors

Orig Pub : Tekhnika (Bulg.), 1958, 7, No 9, 7-11

Abstract : No abstract.

Card 1/1

STEFANOV, V. J.

BULGARIA/Radio Physics -- Generation and Conversions of Radio
Frequency Oscillations.

I

Abs Jour : Ref Zhur Fizika, No 1, 1960, 1674

Author : Stefanov, V.J.

Inst : -----

Title : Generation of Relaxation of Oscillations with the
Aid of a Magnetic Amplifier

Orig Pub : Dokl. Bolg. AN, 1959, 12, No 1, 13-16

Abstract : It is shown that it is possible to construct a relaxation self-oscillator with one magnetic amplifier, operating as a contactless relay. Assuming that amplifier has a fast response and its magnetic core has a rectangular hysteresis loop, and neglecting the variation of voltage on the capacitor during the time of the transients, the author derive a formula for the determination of the period of oscillations T and of the excitation conditions.

Card 1/1

S/058/62/000/010/056/093
A061/A101

AUTHOR: Stefanov, V.

TITLE: Improvements in lasers

PERIODICAL: Referativnyy zhurnal, Fizika, no. 10, 1962, 16, abstract 10G151
("Fiz.-matem. spisanie", 1961, v. 4, no. 4, 306 - 309, Bulgarian)

TEXT: This is a review conveying a description of the latest improvements
in ruby lasers. The possible applications of lasers are enumerated.

[Abstracter's note: Complete translation]

Card 1/1

STEFANOV, V.

"Quantum electronics" by C.H.Townes. Reviewed by V.Stefanov.
Fiz mat spisaniie BAN 4 no.4:317 '61.

STEFANOV, V., kand. na fiz.-mat. nauki

Tunnel diodes. Tekhnika Bulg 10 no.1:34-36 '61.

S/274/63/000/002/011/019
A055/A126

AUTHOR: Stefanov, V.

TITLE: Amplifiers using majority carriers in a solid-state body

PERIODICAL: Referativnyy zhurnal, Radiotekhnika i Elektrosvyaz', no. 2, 1963,
50, abstract 2B379 (Fiz.-matem. spisaniye, 1962, v. 5 (38), no. 1,
65; Bulgarian)

TEXT: The article contains the description and the technical characteristics of amplifiers using majority carriers in a solid-state body - the tunnel triodes (TT). The structure of TT and their operating principle are explained. The TT is compared with the usual semiconductor triode and the electron vacuum tube. It is pointed out that TT do not require h-f materials with monocrystal structure. The described devices are, at present, in the stage of laboratory development and investigation.

V.L.

[Abstracter's note: Complete translation]

Card 1/1

STEFANOV, Vasil

Quantum-mechanical generators and amplifiers. Fiz mat
spisanie BAN 5 no.3:183-190 '62.

STEFANOV, Vasil, k. f. m. n.

Miniaturization of electronic apparatus. Tekhnika Bulg 12
no.6:8-12 '63.

STEFANOV, V.

New types of lasers. Fiz mat spisani* BAN 6 no. 2:156 '63.

STEFANOV, Vasil Iord., kand. na fiz.-matem. nauki

Lasers and their application. Priroda Bulg 12 no. 4:
43-46 J1-Ag '63.

STEFANOV, V.

Thermally tuned optical maser. Doklady BAN 16 no.5:489-492 '63.

1. Submitted by Corresponding Member E. Djakov [Dzhakov, E.].

GAL'TSOV, A.D.; DENISYUK, I.N.; LEVANDOVSKIY, S.N.; LOSEV, A.G.; PEZIK, M.O.; PETROCHENKO, P.P.; SAVOS'KIN, N.M.; TRUBITSKIY, G.R.; KHISIN, R.I.; KHROMILIN, V.A.; ALEKSEYEV, S.S., retsenzent; GAL'PERIN, L.I., retsenzent; GRANOVSKIY, Ye.N., retsenzent; ZAKHAROV, N.N., retsenzent; KVASHNIN, S.A., retsenzent; KEREKESH, V.V., retsenzent; KOTENKO, I.N., retsenzent; LIVSHITS, I.M., retsenzent; LERNER, G.V., retsenzent; NEVSKIY, B.A., retsenzent; NOVIKOV, V.F., retsenzent; RAZAMAT, E.S., retsenzent; SERGEYEV, A.V., retsenzent; STEFANOV, V.P., retsenzent; TOLCHENOV, T.V., retsenzent; FEDOTOV, F.G., retsenzent; VOL'SKIY, V.S., red.; STRUZHESTRAKH, Ye.I., red.; USPENSKIY, Ya.K., red.; SEMENOVA, M.M., red.izd-va; MODEL', B.I., tekhn.red.

[Handbook for work-norm experts in machine manufacture] Spravochnik normirovshchika-mashinostroitelia v 4 tomakh. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry. Vol.1. [Fundamentals of technical normalization] Osnovy tekhnicheskogo normirovaniia. 1959. 676 p. (MIRA 12:12)

(Standardization)

ALEKSEYEV, S.A.; ZHMAKIN, D.F.; KEREKESH, V.V.; MALOV, A.N.;
MARTSINOVSKIY, P.L.; MOLOTOK, A.V.; NESMELOV, V.A.;
TEVEROVSKIY, P.A.; KHISIN, R.I.; DELITSIN, A.A., retsenzent;
SOKHNOVSKIY, M.A., retsenzent; STEFANOV, V.P., retsenzent;
STORozHEV, M.V., retsenzent; TALANOV, P.I., retsenzent;
FAL'KEVICH, A.S., retsenzent; CHERNUSHEVICH, V.A., retsenzent;
KHISIN, R.I., red.; GAL'TSOV, A.D., red.; VOL'SKIY, V.S., red.;
STRUZHESTRAKH, Ye.I., red.; SEMENOVA, M.M., red. izd-va; MODEL',
B.I., tekhn. red.

[Manual for the establishment of norms in the machinery industry
in 4 volumes] Spravochnik normirovshchika-mashinostroitelia v
4 tomakh. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-
ry. Vol.3. [Establishing norms for founding, stamping, welding,
painting, metal plating, and woodwork] Normirovanie liteinykh,
kuznechnykh, shtampovochnykh, svarochnykh, lakokrasochnykh ra-
bot, metallopokrytii i derevoobrabotki. 1962. 671 p.
(MIRA 15:4)

(Machinery industry—Production standards)

SHCHUKIN, V. G., Eng.

Cand. Tech. Sci.

Dissertation: "Synthesis and Investigation of the Heat-Resistant Electroinsulating Compositions Based on Glass Fiber and Soviel." Moscow Order of Lenin Power Engineering Institute V. K. Molotov, 20 Jun 47.

SO: Vechernyaya Moskva, Jun, 1947 (Project #17836)

DROZDOV, N.G., professor, doktor tekhnicheskikh nauk; PRIVEZENTSEV, V.A., professor, doktor tekhnicheskikh nauk; KOMAROV, N.S., dotsent, kandidat tekhnicheskikh nauk; NIKULIN, N.V., dotsent, kandidat tekhnicheskikh nauk; SHUMSKIY, I.I., dotsent, kandidat tekhnicheskikh nauk; KRESOLEVSKIY, P.A., kandidat tekhnicheskikh nauk; GEPPE, A.P., inzhener; ALEKSANDROV, N.V., professor, doktor tekhnicheskikh nauk; TAREYEV, B.M., professor, doktor tekhnicheskikh nauk; EYGENSON, L.S., professor, doktor tekhnicheskikh nauk; STEFANOV, V.S., dotsent, kandidat tekhnicheskikh nauk; MAGIDSON, A.O., inzhener.

"Science of electrical materials." M.M. Mikhailov. Reviewed by N.G. Drozdov, and others. Elektrichestvo no.3:93-94 Mr.'54. (MLRA 7:4)

1. Moskovskiy energeticheskiy institut im. Molotova. 2. Vsesoyuznyy zaochnyy energeticheskiy institut.

(Electric insulators and insulation) (Electric conductors)

VASIL'CHENKO, V.A., inzh.; STEPANOV, V.V., inzh.

The E-10011 excavating cranes with turbine transformers. Stroi.
i dor.mashinostr. 4 no.6:3-6 Je '59. (MIRA 12:8)
(Excavating machinery)

L 22246-66 EWP(j)/EWT(m) IJP(c) RM

ACC NR: AP6006493

SOURCE CODE: UR/0138/65/000/010/0027/0029

AUTHOR: Peschanskaya, R. Ya.; Eydel'nant, N. L.; Smolyanitskiy, V. Z.; Gershenovich, A. I.; Stefanovich, V. V.; Gal'braykh, I. Ye.; Alekseyeva, N. A.; Tikhonova, Zh. I. ³³₃₂

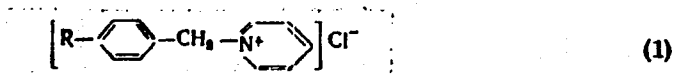
ORG: Scientific-Research Institute of Rubber and Latex Products (Nauchno-issledovatel'skiy institut rezinovykh i lateksnykh izdeliy); "Red Triangle" Plant (zavod "Krasnyy treugol'nik")

TITLE: The use of p-alkylbenzylpyridinium chloride as a vulcanization catalyst for rubber mixtures ¹⁵

SOURCE: Kauchuk i rezina, no. 10, 1965, 27-29

TOPIC TAGS: vulcanization, catalyst, butadiene styrene rubber, synthetic rubber, rubber chemical

ABSTRACT: A cationactive pyridinium compound, p-alkylbenzylpyridinium chloride (katapin):



where R is an aliphatic radical containing 12-14 carbon atoms, was studied as a vulcanization catalyst. Katapin is a water-soluble dark-brown paste, now being produced on a semi-industrial basis. When large-scale industrial production is organized, katapin production costs will be close to those of captax, the least expensive vulcanization catalyst. Katapin is found to

Card 1/2

UDC: 678.044.004.14

L 22246-66

ACC NR: AP6006493

have medium-strength activity as a vulcanization catalyst. Katapin makes possible the production of NK-base vulcanizates with higher strength properties than that produced by means of the standard catalysts: captax, altax, and DFG. In butadiene-styrene rubber mixtures, katapin comes close in vulcanization activity to that of DFG. Katapin may be used as an independent agent, as well as in combinations with captax, altax, and thiuram. Orig. art. has: 4 tables.

SUB CODE: 07,11 / SUBM DATE: none / ORIG REF: 003 / OTH REF: 004

Card 2/2 nst

STEFANOV, V.Ye.; BOLDYREV, L.I.

Improving the fittings of large section and rail rolling mills.
Metallurg no.8:26-28 Ag '56. (MIRA 9:10)

1.Kalibrovshchik krupnosortnogo tsekha zavoda "Azovstal'" (for
Stefanov). 2.Starshiy master stana zavoda "Azovstal'" (for Boldyrev).
(Rolling mills)

SOV/130-58-10-9/18

AUTHORS: Protasov, N.F., Khlebnikov, V.P., Sikorskiy, A.I.,
Gonchar, V.V., Stefanov, V.Ye and Boldyrev, L.I.

TITLE: Improving Accessories on the Reducing Mill of a Heavy-
Section Mill (Usovershenstvovaniye armatury obzhimnogo
stana krupnosortnogo tsekha).

PERIODICAL: Metallurg, 1958, Nr.10, pp.25-29 (USSR)

ABSTRACT: It was found that when rolling low-number girders, especially Nr.20 in the reducing stand of a rail-structural mill the metal often displaced the guides, leading to stoppages. The authors give details of guide construction and attachment (Fig.1) and also of special devices provided before each pass (Fig.2) to support the beam from below. This is advantageous for rolling large girders (Nr.30-55) but unreliable for smaller (Nr.18-16) sizes. For rolling these latter when the closed passes are in the bottom roll two variants of guide arrangements have been proposed. In the first special movable vertical supports are provided for the guides, fixed on trapezoidal projections. In the

Card 1/2

SOV/130-58-10-9/18

Improving Accessories on the Reducing Mill of a Heavy-Section Mill.

second a trapezoidal-section bar is fixed to the housing (similar to the guide bars on the finishing line) (Fig.4) which supports one end of the specially shaped guide, the other being held in the pass with the aid of a load. The authors favour the second variant and mention its applicabilities. Its adoption has enabled the load on the finishing line to be reduced by 20-25%. The new roll-pass designs used since March 1957 have led to better roll life, higher productivity and other improvements. The new accessories are especially useful for thin-walled sections, and during the year for which they have been in use no cases of guide displacement have occurred. There are 4 figures.

ASSOCIATION: Zavod "Azovstal'" ("Azovstal'" works).

Card 2/2

SOV/130-58-12-12/21
AUTHORS: Protasov, N.F., Khlebnikov, V.P., Sikorskiy, A.I.,
Gonchar, V.V., Boldyrev, L.I. and Stefanov, V.Ye.
TITLE: Experience of the Adoption of Profiles for Mine Supports
(Opyt osvoeniya profiley dlya **shakhtnogo** krepleniya)
PERIODICAL: Metallurg, 1958, Nr 12, pp 27 - 29 (USSR)
ABSTRACT: The "Azovstal'" works is one of the main suppliers of the
more important sections for mine construction and opera-
tion. The authors illustrate (Fig 1) sections for props
types 18A-18B and 28A-28B and show how the first two fit
each other (Fig 2). These sections are rolled from
230 x 285 and 245 x 280 mm blooms in four stands arranged
in two lines and the authors outline the pass design and
deformations at the various stages. They deal with the
production of inclined props to GOST-5157-53. The authors

Card 1/2

SOV/130-58-12-12/21

Experience of the Adoption of Profiles for Mine Supports

state that the pass designs for pit props developed at the works have improved quality as well as increasing production.

There are 4 figures

ASSOCIATION: "Azovstal'" works

Card 2/2

PROTASOV, N.F.; STEFANOV, V.Ye.; DEMCHENKO, V.P.; SHIYAN, V.A.;
KRISHTAFOVICH, P.D.

Rolling SVP-17 and 27 shapes with a greater incline of the walls.
Metallurg 8 no.9:31-34 S '63. (MIRA 16:10)

1. Zavod "Azovstal'."
(Rolling (Metalwork))

STEFANOV, V.Ye.; PROTASOV, N.F.

Grooving channels by the method of gradual bending. Stal' 23
no.8:724-728 Ag '63.

(MIRA 16:9)

(Rolling (Metalwork))

PROTASOV, N.F.; STEFANOV, V. Ye.; SHIYAN, V.A.; DEMCHENKO, V.P.;
KRISHTAFOVICH, P.D.

Rolling of a No. 16 c'annel by the gradual bending method.
Metallurg 9 no.1:27-29 Ja '64 (MIRA 18:1)

1. Zavod "Azovstal'".

ARSHAVSKIY, V.V., Ingk.; STERINOV, V.Ye., Ingk.

Some factors affecting the conditions of metal deformation in 9-passes
in the rolling of heavy railroad rail. Steel 21 no. 9:821-824 3 1962.

(MIRA 17:10)

L. Parainiski machine-instrumentally Institut metallo i zavod
"Akhmetov".

PROTASOV, N.F., inzh.; ~~SIEMANOV, A.Ye.~~, inzh.; SHIYAN, V.A., inzh.

Using double radii of connection for webs and flanges in the
rolling of lightweight girders. Stal' 25 no.8:834-836 3 '65.
(MIRA 18:9)

1. Zaved "Azovstal'".

ACC NR: AP7001222

(A)

SOURCE CODE: UR/0066/66/000/012/0017/0022

AUTHOR: Stefanov, Ye. V. (Doctor of technical sciences; Professor)

ORG: none

TITLE: Investigation of an air conditioning device equipped with a network-irrigation attachment

SOURCE: Kholodil'naya tekhnika, no. 12, 1966, 17-22

TOPIC TAGS: air conditioning equipment, cooling, turbulent heat flow, turbulent heat transfer

ABSTRACT: On the basis of analyses and experiments, an air-conditioning device with an attachment containing a multistage arrangement of horizontal irrigation layers is suggested. Analyses covered various types of irrigation attachments and general requirements for central air-conditioning systems, such as large surface per unit volume of irrigation layer, high irrigation-layer hollowness and active section, low aerodynamic drag, adequate structural strength and durability, and corrosion resistance. Curves representing such characteristic functions of the irrigation system as aerodynamic drag, irrigation factor, velocity of air approaching the layer, and Nusselt's and Reynolds criteria, and the experimental arrangement are shown. Functional correlations of the main criteria show that turbulent conditions along the layer improve air cooling and drying processes and therefore lower the required water

Card 1/2

UDC: 621.564.25.001.5

ACC NR: AP7001222

discharge. As demonstrated, the suggested arrangement, which uses network layers of flat caprone filaments is much superior to annular irrigation headpieces using round filaments. In comparison with typical spray chambers, the described air conditioning device has a volume of 57.5% and requires a surface of 76.5% and a water discharge of 63.8% for air cooling and drying purposes. Orig. art. has: 6 figures, 1 table, and 14 formulas.

SUB CODE: 13/ SUBM DATE: none/ ORIG REF: 004/

Card 2/2

STEFANOV, Y. V.

RYMKEVICH, A.A.; STEFANOV, Y. V.

Escape of gases in a machine shop during operation of a diesel
engine. Energ. biul. no. 6:25-32 Je '57. (MIRA 10:7)
(Machine shops--Ventilation) (Diesel engines)

ALFESHIN, K.P.; LUKASHEVICH, I.I.; SAMOYLOV, B.N.; SKLYAREVSKIY, V.V.;
STEPANOV, Ye.P.; FILIPPOV, N.I.

Apparatus for studying the Mossbauer effect. Prib. i tekhn.
eksp. 9 no.4:43-49 J1-Ag '64. (MIRA 17:12)

AUTHORS: Rymkevich, A.A.; Stefanov, Ye.V. 90-58-3-7/9

TITLE: The Thermal Emission of Diesels into their Surrounding Medium (O teplovydelenii dizeley v okruzhayushchuyu sredu)

PERIODICAL: Energeticheskii byulleten', 1958, Nr 3, pp 20-25 (USSR)

ABSTRACT: G.I. Rossiyskiy recommended that the thermal emission of a diesel be equal to 3-8% of the total heat produced in the cylinders during fuel combustion, while Professor V.V. Baturin suggests it can be anywhere from 1-20%. The authors describe and give the results of one of their experiments to determine the thermal emission of a K-150 diesel engine. The engine was encased in an insulated casing and the temperatures of the various components of the thermal balance and air-cooling system recorded during the engine's operation. The results are drawn up in table form and show clearly that the thermal emission depends only on the temperature of the diesel's surface. The emission did not exceed 3% of the total heat produced during normal operations, whereas the figure for this size of engine is usually taken as 5-6%. Formulae for determining the heat-emission of diesel engines similar to the type tested are worked out. A working formula for the thermal emission Q of such an engine, given results

Card 1/2

90-58-3-7/9

- The Thermal Emission of Diesels into their Surrounding Medium

which vary less than 10% from the experimental data, is.

$$Q = 4.6F_r \Delta t^{1.33}$$

where Q is expressed in large cal/hr, F_r is the overall surface area of the diesel and Δt is the temperature difference equal to $t - t_a$ in °C (the difference between the temperature of the engine surface and that of the surrounding air).

There are 5 diagrams, 1 table and 4 Soviet references.

1. Diesel engines--Thermal emission--Theory

Card 2/2

IPATOV, V.; NOVIK, G.; RUSANOV, B.; STEPANOV, Yu.; LANSKOY, V.; IVANOV, A.

Sports news. Kryl. rod. 15 no.7:27 J1 '64.

(MIRA 18:1)

SKOROSPESHKIN, Aleksey Ivanovich, kand.tekhn.nauk, dotsent: STEPANOV, Yuriy
Andreyevich, inzh.

Amplidyne with a smooth rotor. Izv.vys.ucheb.zav.; elektromekh. 7
no.13:1282-1283 '64. (MIRA 18:1)

1. Kafedra elektricheskikh mashin Tomskogo politekhnicheskogo
instituta (for Skorospeshkin).

STEFANOV, Yu.A.

Drilling for oil and gas in the United States. Trudy VNIIBT no.14:
208-215 '65. (MIRA 18:5)

Bulgaria/Virology. Viruses of Man and Animals

E

Abs Jour : Ref Zhur-Biol., No 13, 1958, 57413

Author : Stefanov Z.
Inst : ~~Republican~~ Scientific-Research Institute of Epidemiology and Microbiology
Title : A Study of the Causative Agent of Measles

Orig Pub : Tr. Respubl. n.-i. in-t epidemiol. i mikrobiol., 1956, 3, 125-134

Abstract : The measles virus isolated from the nasopharyngeal washings and the citrated blood of sick children was passed on white mice, rabbits, and chicken embryos. With the help RSK /reaction of complement fixation/ and AVB /agglutination by the virus of supercharged bacteria/ it was shown that the virus reproduces in chicken embryos and in the organism of white mice and rabbits.

Card 1/1

STEFANOV, Zh.

SURNAME, Given Names

Country: Bulgaria

Academic Degrees: not given

Affiliation: Scientific Research Sanitation and Hygiene Institute, Sofia
(Nauchno-Izsledovatel'ski Sanitarno-Khigienen Institut)

Source: Sofia, Khigiena, Vol IV, No 5, Sep/Oct 1961, pp 15-18

Data: "The Role of Water in Communicating Dysentery in Bulgaria"

SPD 981643

STEFANOV, Zh.; GEORGIEVA, TSv.

Apropos of complications related to artificial interruption
of pregnancy from data of the 1st Maternity Home "Tina Kirkova".
Akush.Ginek.3 no.3:8-12 '64.

STEFANOV, Zheliasko

Complex mechanization and automation in agriculture. ~~Ratsionalizatsiis~~
11 no.10:10-11 '61.

1. Glav n inzhener na MTS, s. Radnevo.

IONKOV, Iv.; TSOLOV, R.; DOSKOV, I.; SHISHMANOVA, Iul.; ANDREEV, I.;
NIKOLOV, St.; SUKIASIAN, Kh.; MATEV, M.; ATANASOV, E.;
TODOROV, B.; STEFANOVA, A.; PETRUNOV, St.; TSVETKOV, D.;
ORESHKOV, V.; SIMEONOV, S.; PATARINSKI, D.; AVRAMOVA, N.;
MALCHEV, Kh.

Biochemical changes in patients with influenza during the
1959 epidemic. Nauch. tr. vissh. med. inst. Sofia 41 no.7:
9-14 '62.

1. Predstavena ot prof. I. Ionkov.
- | | | |
|-------------------|-------------------|----------------------|
| (INFLUENZA) | (GAMMA GLOBULIN) | (IRON METABOLISM) |
| (BILIRUBIN) | (BICARBONATES) | (BLOOD CHOLESTEROL) |
| (UREA) | (BLOOD SUGAR) | (PROTEIN METABOLISM) |
| (POTASSIUM) | (BLOOD PROTEINS) | (SODIUM) |
| (17-KETOSTEROIDS) | (SODIUM CHLORIDE) | |

KHRISTOV, Tsv.; DRAGANOVA, R.; STEFANOVA, Ant.

Extraction of lignine from the wood part of ailantus with dioxine.
Godishnik khim tekhn 6 no.1:75-95 '59 (Publ. '60)

IONKOV, I.; TSOLOV, R.; STANCHEV, A.; DOSKOV, I.; SHISHMANOVA, IU.;
BALCHEV, A.; PENEVA, M.; SUKIASIAN, Kh.; MATEV, M.; NIKOLOV, St.;
ATANASOV, E.; TODOROV, B.; STEFANOVA, A.

Clinical, pathophysiologic, and therapeutic aspects of tuberculous
exudative pleurisy. Nauch. tr. Med. akad. Chervenkov, Sofia 1 no.1:
117-137 1953.

1. Predstavena ot prof. Iv.Ionkov, zavezhdashch Katedrata po
propedevtika na vutreshnite bolesti.

(TUBERCULOSIS, PULMONARY, complications,
pleurisy, exudative)

DIMITROV, D.; FRATEV, F.; STEPANOVA, A.; BRATKOVA, M.

Some color reactions of aromatic compounds. Pt.4. Godishnik
khim tekhn 9 no.2:209-219 '62 [publ. '63].

DIMITROV, D.I.; STEFANOVA, A.D.; PANAIOTOVA, E.N.

Possibilities of detection and quantitative determination of aromatic compounds by the reaction with nitrite and sulfuric acid. Im 1 industriia 34 no.4:129-134 '62.

BULGARIA/Human and Animal Physiology (Normal and Pathological).
Pancreas.

T-7

Abs Jour : Ref Zhur - Bioli, No 16, 1958, 75036

Author : Tsolov, R., Stefanova, Ant.

Inst : -

Title : Treatment of Diabetes with a New Enteral Antidiabetic.
Agent - Rastinon.

Orig Pub : Nauchni tr. Vissh. med. in-t Sofiya, Klinich. katedri,
1956 (1957), 4, No 1, 93-112.

Abstract : No abstract.

Card 1/1

IONKOV, Iv.; ANDREEV, Ig.; STEFANOVA, Ant.; VULKOVA-GANEVA, N.; NIKOLOV, N.

Dietotherapy in rheumatism. Nauch. tr. vissh. med. inst. Sofia 40 no.3:
37-49 '61.

1. Predstavena ot prof. Iv. Ionkov, Ruk. na Katedrata po propedevtika
na vutreshnite bolesti.

(RHEUMATISM nutrition & diets)

ИТФАНОВА, Т.

Spring and summer diarrheas. (Supplement)

P. 25 (Ministry of Health, Research Institute for Organization of Health Service)
Vol. 12, No. 7/8, July/Aug. 1957.

SO: Monthly Index of East European Accessions (AMEI) Vol. 6, No. 11 November 1957.

BAMBOV, L. Khr.; STEFANOVA, G.; OBREIKOV, L.; AVRAMOVA, V.; KEKHAIOVA, St.;
LOLOVA, V.

Exudative tuberculous pleurisy as an early manifestation of pulmonary tuberculosis. Suvrem med., Sofia no.3:79-85 '61.

1. Okruzhen tuberkulozen dispenser, Burgas (Glaven lekar M. Karapalev).

(TUBERCULOSIS PULMONARY diag)

STEFANOVA, IAgodinka

Improvement of the cash payment for the labor in stockbreeding on
collective farms. Trud tsepi 4 no.10:62-68 '62.

MACEK, Milos, MUDr.; HLOUSKOVA, Zdenka, MUDr.; STEFANOVA, Jirina;
SVEJCAROVA, Bela

Physical training in certain chronic pulmonary diseases.
Cesk. pediat. 11 no.6:415-420 June 56.

1. Z I. detske kliniky, predn. prof. MUDr. J. Svejcar, z
rehabilitacniho oddel, detskych klinik, z II. detske kliniky,
predn. prof. MUDr. J. Houstek.

(LUNGS, diseases,
ther., exercise (Cz))

(EXERCISE THERAPY, in various diseases,
lung dis. (Cz))

MACEK, Milos; NOVAKOVA, Marie; STEFANOVA, Jirina; KULIKOVA, Eva

Results of physical exercise therapy in asthmatic children.
Cesk.pediat.15 no.6/7:651-654 J1'60.

1. I. detska klinika KU v Praze, prednosta prof.MUDr.Josef Svejcar.
(ASTHMA in inf & child)
(EXERCISE THERAPY in inf & child)

MACEK, Jilos; STEFANOVA, Jirina; HLOUSKOVA, Zdenka

Role of exercise therapy in chronic pulmonary diseases. Cesk.
pediat. 15 no.8:734-736 Ag '60.

1. I detska klinik KU v Praze, prednosta prof. dr. J.Svejcar
- II.detska klinika KU v Praze, prednosta prof. dr. J.Houstek.
(EXERCISE THERAPY)
(LUNG DISEASE in inf & child)

BULGARIA/Human and Animal Physiology - 12442

Abs Jour : Ref Zhur Biol., No 3, 1959, 12442

Author : Kalajdschiev, A., Waltschewa, L., Stefanova, L.

Inst : Bulgarian AS

Title : Interaction of Purified Catalase and Protease in
Respect to the Mechanism of the Stimulatory Process

Orig Pub : Dokl. Bolg. AN, 1957, 10, No 5, 395-397

Abstract : Mixtures of preparations of purified catalase and bacterial protease were incubated in a special incubator which had been contrived to give 14 different temperatures at the same time. With 90-minute incubation at temperature ranges of 22 - 63 degrees protease produced a decrease in catalase activity. The obtained results were considered proof of the fact that proteolytic enzymes can regulate the course of oxidizing processes

Card 1/2

STEFANOVA, L.; BAKARDZHIEV, Iv.

Stabilizing vitamin C in carbonated, salted, and sweetened water.
Izv biol med BAN 3 no.3:147-150 '59. (EEAI 10:4)

1. Institut po eksperimentalna meditsina pri BAN (Direktor: akad.
D.Orakhovats)
(ASCORBIC ACID)
(WATER)

STEFANOVA, L.; RUSINOV, K.

Modified cholinesterase activity of the brain in convulsions
following anticonvulsant therapy. Izv. inst. fiziol. (Sofia)
8: 133-139 '64

16(1)

SOV/42-14-1-21/27

AUTHOR: Stefanova, L.B.

TITLE: On an Ordinary Differential Operator Depending on a Parameter
(Ob odnom obyknovennom differentsial'nom opereatore, zavisyashchem
ot parametra)

PERIODICAL: Uspekhi matematicheskikh nauk, 1959, Vol 14, Nr 1, pp 231-236 (USSR)

ABSTRACT: The results of Mikhlin [Ref 1] on the operator $A^{[\alpha]}u =$
 $= - \frac{d}{dt} \left[t^{\alpha} \frac{du}{dt} \right]$ are extended to operators of higher order. In the
 $L_2(0,1)$ the operator $A_n = (-1)^n \frac{d^n}{dt^n} \left[t^{2n} \frac{d^n u}{dt^n} \right]$, $0 \leq t \leq 1$, is
 defined at first on functions continuous with the first $2n$
 derivatives and satisfying the conditions
 $(A) \quad u(1) = u'(1) = \dots = u^{(n-1)}(1) = 0$.
 The operator A_n is singular and positive. Its extension
 selfadjoint with respect to Friedrichs is considered and it is
 proved that its spectrum is continuous and fills up the ray
 $\lambda \geq \frac{1^2 \cdot 3^2 \cdot \dots \cdot (2n-1)^2}{4^n}$. Furthermore the author investigates

Card 1/2

On an Ordinary Differential Operator Depending
on a Parameter

SOV/42-14-1-21/27

the operator $A_n^{(\alpha)} u = (-1)^n \frac{d^n}{dt^n} \left[t^\alpha \frac{d^n u}{dt^n} \right]$, $0 \leq t \leq 1$, where for
 $\alpha > 2n$ the boundary condition (A) is set up only at the right
end. The operator is positive, its spectrum is not discrete,
the lower bound is 0. Passing through the parameter value $\alpha = 2n$,
the lower bound makes the jump $\frac{1^2 + 3^2 + \dots + (2n-1)^2}{4^n}$. Then the
operator is defined for $\alpha < 2n$ and it is shown that its spectrum
is discrete for $\alpha < 2n$.
There are 2 Soviet references.

SUBMITTED: November 29, 1957

Card 2/2

STEFANOVA, M.

H-6

BULGARIA/Chemical Technology - Chemical Products and Their
Application, Part 1. - Safety and Sanitation
Techniques.

Abs Jour : Ref Zhur - Khimiya, No 14, 1958, 47281

Author : M. Stefanova

Inst : -

Title : Silicosis Among Workers of Glass and Porcelain-Faience
Industry.

Orig Pub : Leka promishlenost, 1957, 6, No 10, 25-27.

Abstract : In 1956 the greatest dust content in air in glass and
porcelain-faience factories was found at manual opera-
tions (screening and mixing of raw materials, dry pres-
ses, mills and sieves in chamotte shops, etc.). The
major part of dust particles is under 5 μ , the content
of SiO₂ is 23.8 to 67.8%. At a medical inspection of
workers, the initial stage of silicosis was established

Card 1/2

BULGARIA/Chemical Technology. Pharmaceuticals. Vitamins.
Antibiotics.

H

Abs Jour: Ref Zhur-Khim., No 24, 1958, 82683.

Author : Stefanova, M., Ivanova, D., Donev, H., Koen, I.

Inst :

Title : The Relationship Between the Efficiency of an Active
Principle and the Method of Drying a Plant Raw Material.

Orig Pub: Sb. tr. Vissh. med. in-t-Plovdiv, 1955, (1957),
10, 165-172.

Abstract: The investigation for the determination of the optimum condition for vacuum drying medicinal herb by several laboratory methods in regard to the activity of the active principle was carried out. The drawings of the experimental set-up and a list of the results from determinations and the pharmaceutical investiga-

Card : 1/2

BULGARIA/Chemical Technology. Pharmaceuticals. Vitamins.
Antibiotics.

H

Abs Jour: Ref Zhur-Khim., No 24, 1958, 82683.

tions are given. It was found that drying under vacuum at 40 millimeters of mercury column for one hour does not split the active principle of the investigated pharmaceutical raw material even at 100°C.

Card : 2/2

BULGARIA / Cultivated Plants. Plants for Technical Use. M
Oil Plants. Sugar Plants.

Abs Jour : Ref Zhur - Biologiya, No 6, 1959, No. 25010

Author : Baylov, D.; Stefanova, M.; Andreycheva, M.

Inst : Bulgaria Academy of Sciences

Title : Concerning the Nature and Causes of the
Tobacco Mosaic Disease

Orig Pub : Dokl. Bolg. AN, 1957, 10, No 6, 509-512

Abstract : The connection between the infected leaf's
spottiness and chlorogenetic acid was
successfully established by determining,
according to Heffner's method, the quantity
of the acid in the very spottiness, and also
in the uninfected part of the same leaf and
in the altogether uninfected leaves of the
same sort and brand. The quantity of

Card 1/3

140

BULGARIA / Cultivated Plants. Plants for Technical Use. M
Oil Plants. Sugar Plants.

Abs Jour : Ref Zhur - Biologiya, No 6, 1959, No. 25010

carbohydrates and pure protein were determined also in these very same experiments. It was established that if the spottiness is of a yellow color, then the quantity of chlorogenetic acid is greater in the determined part than in the uninfected part of the same leaf and in the completely uninfected leaves. If the spottiness is of a brown color, then the quantity of chlorogenetic acid in it does not differ from its quantity in the uninfected leaves. Regardless of the color of the spottiness, the infected leaves contain more protein and less carbohydrates. The green and brown spottiness is conditioned by different degrees of the chlorogenetic acid's

Card 2/3

BULGARIA / Cultivated Plants. Plants for Technical Use. M
Oil Plants. Sugar Plants.

Abs Jour : Ref Zhur - Biologiya, No 6, 1959, No. 25010

oxidation. This is proven by the tints,
obtained by the author in vitro, which
completely resemble the tints of the tobacco
leaves, infected naturally with the mosaic
disease. -- P. N. Kizima

Card 3/3

141

SHAROV, V.I.; BLAGOEV, Khr.; STOIANOVA, B.; STEFAKOVA, M.

Stability of the anticyclonetype of weather over Bulgaria.
Khidro i meteorolog 6 10-20 '63.

1. Chlen na Redaktsionnata kolegiia, "Khidrologiia i meteorologiia" (for Blagoev).

STEFANOVA, MARA

Bulgaria/Chemical Technology - Chemical Products and Their Application. Fermentation Industry, I-27

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 63576

Author: Raduchev, St.; Stefanova, Mara

Institution: None

Title: On Lactic Souring and Manitol Fermentation of Wine

Original

Periodical: Po v"prosa za mlechnogo vkisvane i manitnata fermentatsiya na vinata. Lozarstvo i vinarstvo, 1955, No 3, 157-161; Bulgarian

Abstract: On investigation of the composition of wines subject to lactic acid disease there is noted increased extract (37.5-73.7 g/l) and sugar (up to 43.4 g/l), increased total acidity (up to 11.77 ‰) and volatiles (up to 5.55 ‰) and large amount of lactic acid (up to 8.86 ‰). Increased alcohol content is not an inhibiting factor. Optimal pH 4-6. With pH < 3.3 development of lactic acid bacteria is almost entirely inhibited. Optimal temperature 18-35°. SO₂ kills the bacteria at a dosage of 80 mg/l.

Card 1/1

STEFANOVA, M
BULGARIA/Microbiology - Industrial Microbiology.

F-3

Abs Jour : Ref Zhur - Biol., No 5, 1958, 19456
Author : Raduchev, Pechev, Stefanova, *M*
Inst : -
Title : Experiments in Constructing Most Suitable Plants for
Production of Bulgarian Champagne Wine.
Orig Pub : Lozarstvo i vinarstvo, 1956, 5, No 6, 366-374
Abstract : No abstract.

Card 1/1

STEFANOVA, M.

BULGARIA/Chemical Technology - Chemical Products and Their
Application. Fermentation Industry.

I-12

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001653110001-3"

Abs Jour : Ref Zhur - Khimiya, No 1, 1958, 2800
Author : Stefanova, M., Pavlov, D., Burdzhiev, Iv.
Inst : -
Title : Production of Wine of the Sherry Type in Bulgaria
Orig Pub : Lozarstvo i vinarstvo, 1957, 6, No 1, 22-29

Abstract : A study was made, under laboratory conditions, of the suitability of 4 varieties of Bulgarian grapes for the production of sherry wine. Best suited are Fetyaska and Bereza; Pamid gave somewhat less satisfactory results, while the gymza variety is not suitable for the making of sherry. In studying the effect of nitrogen-containing substances on development of sherry characteristics it was ascertained that yeast water, 0.5-1%, and ammonia (80 mg/liter) contribute to their development, especially on combined addition. Analyses show that this causes an increased content of

Card 1/2

BULGARIA/Chemical Technology - Chemical Products and Their
Application. Fermentation Industry.

I-12

Abs Jour : Ref Zhur - Khimiya, No 1, 1958, 2868

aldehydes, acetals and esters, as compared with the controls. The authors are of the opinion that it is possible to produce high-grade wines of the sherry type in Bulgaria.

Card 2/2

BULGARIA/Chemical Technology. Chemical Products and Their
Application, Part 3. - Fermentation Industry.

H

Abs Jour: Referat. Zhurnal Khimiya, No 21, 1958, 72204.

Author : St. Raduchev, K. Pechev, M. Stefanova.

Inst :

Title : Study of Various Yeast Races With a View of Their
Utilization for Production of Bulgarian Champagne.

Orig Pub: Lozarstvo i vinarstvo, 1957, 6, No 6, 30-33.

Abstract: It was established with laboratory and industrial
tests of various yeast races for the production of
Bulgarian champagne that, besides the usually used
French race Eperne, the Soviet race "Moskovskaya"
yields good results.

Card : 1/1

110

AUTHOR : Stefanova, M.; Dimitrov, G.

INST. :

TITLE : Experiments on Utilization of Soviet Strain

of Yeast Races for the Production of
Bulgarian Champagne

ORIG. PUB. : Lozarstvo i vinarstvo, 1959, 8, No 1, 61-63

ABSTRACT : A confirmation of the data of O.F. Smul'skaya
(see RZhKhim, 1956, No 17, 56577) concerning high quality
of champagne produced by fermentation with Sudak 5-VI strain
of yeast, as compared with use of other strains. Champagne
fermented with Sudak 5-VI strain was more frothy, more
effervescent, and was higher rated in gustatory tests, than
champagne fermented with a mixture (1:1) of strains
Moskovskaya and Eperne. -- I. Skurikhin

CARD:

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001653110001-3"

BULGARIA / Human and Animal Physiology. Nervous System. General Problems.

T

Abs Jour: Ref Zhur-Biol., No 22, 1958, 102167.

Author : Stefanova, N.; Bratanova, Tsv.

Inst : Bulgarian Academy of Science.

Title : The Reflection on Vascular Reactions of Single Changes of the Condition of the Cerebral Cortex.

Orig Pub: Izv. Otd. biol. i med. nauki Bolg. AN. Ser. eksperim. biol. i med., 1957, No 1, 15-28.

Abstract: After extinction of the orientating reflex as a result of preliminary plethysmographic investigation, in 6 students, after examination the plethysmographs were neutral, and unconditioned vascular reflexes to stimulation of cold were considerably decreased. In 10 students, unfamiliar with the conditions of the investigation, the plethysmo-

Card 1/2

STEFANOVA, N.; BRATANOVA, TS.

Changes in the vascular reactions of human subjects in the presence of repeated conditioned motor reflexes. Izv. inst. fiziol. (Sofia) 6:155-160 '63.

(REFLEX, CONDITIONED) (MOVEMENTS)
(VASOMOTOR SYSTEM) (PHYSIOLOGY)
(PLETHYSMOGRAPHY)

IORDANOV, D., inzh.; STEFANOVA, N., inzh.; KULCHITSKI, V.; ILIEV, Lozan

The gas cyanidation of structural steel introduced in the
Kolarovgrad State Machine Building Factory. Mashinostroene 12
no.1:12-18 Ja '63.

S/054/63/004/001/010/022
B101/B215

AUTHORS: Stefanova, O. K., Shul'ts, M. M., Materova, Ye. A.,
Nikol'skiy, B. P.

TITLE: The e. m. f. of galvanic cells containing ion exchange
diaphragms

PERIODICAL: Leningrad. Universitet. Vestnik. Seriya fiziki i khimii,
18-no. 1, 1963, 93-98

TEXT: The galvanic cell

$\text{Ag} | \text{AgCl} | \text{solution 1} , \text{AgCl}, \text{BCl} | \text{diaphragm} | \text{AgCl}, \text{BCl}, \text{AgCl} | \text{solution 2} | \text{Ag} (1)$

where A and B are univalent metals or hydrogen, is studied. The diaphragm is taken as being permeable only to cations. The change in free energy caused by the transport of solvent is not taken into consideration. Based on a paper by G. Scatchard (J. Amer. Chem. Soc., 75, 2883, 1953),
Card 1/3

The e. m. f. of galvanic cells ...

S/054/63/004/001/010/022
B101/B215

$$E = \frac{RT}{F} \ln \frac{a_{\pm}^2(\text{BCl})_h + \frac{\bar{u}_A}{\bar{u}_B} K a_{\pm}^2(\text{ACl})_h}{a_{\pm}^2(\text{BCl})_l + \frac{\bar{u}_A}{\bar{u}_B} K a_{\pm}^2(\text{ACl})_l} \quad (6)$$

is obtained for the e. m. f.; a being the activity coefficients of the ions and \bar{u} being their mobility in the diaphragm. The effect of incomplete dissociation on the validity of Eq. 6 is discussed, and the equation whose validity can be determined qualitatively by plotting the curve e. m. f. versus composition of solution is checked experimentally. Substitution of the transport numbers t_1' and t_1'' of ions in the surface layer of the diaphragm in Eq. 6 yields

Card 2/3

The e. m. f. of galvanic cells ...

S/054/63/004/001/010/022
B101/B215

$$E = \frac{RT}{F} \ln \frac{a_{\pm(\text{BCl})_1}^2 + \frac{t_A}{t_B} a_{\pm(\text{BCl})_2}^2}{a_{\pm(\text{BCl})_1}^2 + \frac{t_A}{t_B} a_{\pm(\text{BCl})_2}^2} \quad (9)$$

$$= \frac{RT}{F} \ln \frac{a_{\pm(\text{BCl})_2}^2}{a_{\pm(\text{BCl})_1}^2} \cdot \frac{1 + \frac{t_A}{t_B}}{1 + \frac{t_A}{t_B}} = \frac{RT}{F} \ln \frac{a_{\pm(\text{BCl})_2}^2}{a_{\pm(\text{BCl})_1}^2} \cdot \frac{t_B}{t_B}$$

Hence it follows that there is no need to measure the mobility of ions within the diaphragm nor to study the equilibrium in the membrane - solution system for calculating the e. m. f. of cell (1). It is quite sufficient to determine the number of transport of A^+ and B^+ ions through the membrane.

SUBMITTED: October 1962

Card 3/3

STEFANOVA, O.K.; MATEROVA, Ye.A.; NIKOL'SKIY, B.P.

Ion-exchange and electrochemical properties of sulfo cation
exchangers in solutions of some 1-1 charge electrolytes.
Dokl. AN SSSR 150 no.3:604-607 My '63. (MIRA 16:6)

1. Leningradskiy gosudarstvennyy universitet im. A.A. Zhdanova.
2. Chlen-korrespondent AN SSSR (for Nikol'skiy).
(Ion exchange)
(Electrolyte solutions)

BOBROV, V.S.; LUTUGINA, N.V.; MOLODENKO, P.Ya.; ZAKHAR'YEVSKIY, M.S.; STEFANOVA, O.K.; BELYUSTIN, A.A.; MATEROVA, Ye.A.; NIKOL'SKIY, B.P., otv. red.; POZDYSHEVA, V.A., red.

[Theoretical and practical guide to laboratory work in physical chemistry] Teoreticheskoe i prakticheskoe rukovodstvo k laboratornym rabotam po fizicheskoi khimii. [Leningrad] Izd-vo Leningr. univ. Pt.1. 1965. 197 p.

(MIRA 18:12)

1. Leningrad. Universitet. 2. Uchen-korrespondent AN SSSR (for Nikol'skiy).

STEFANOVA, S.T.

Using polyacrylamide for purifying calcium hypochlorite. Bum.
i der. prom. no.3:49-50 J1-S '63. (MIRA 17:2)

1. Poninkovskiy tsellyulozno-bumazhnyy kombinat.

ACCESSION NR: APh036573

S/0139/64/000/002/0160/0165

AUTHORS: Kleyman, Z. Ya.; Stefanova, T. A.

TITLE: Effect of x-rays on properties of point-contact germanium diodes

SOURCE: IVUZ. Fizika, no. 2, 1964, 160-165

TOPIC TAGS: germanium diode, rectification factor, photoelectric emission, reverse potential, charge carrier, semiconductor, URS 70 apparatus

ABSTRACT: The effect of x-rays on the germanium diode p-n junction characteristics was studied. Types of diodes irradiated were DG-Ts2, DG-Ts4, and DG-Ts8. The x-rays were supplied by URS-70 apparatus with tungsten and copper anticathodes. The distance between the irradiated diodes and the x-ray anticathode tube was 10 cm. The results showed that the current strength is unaffected in the forward direction but increases sharply in the reverse direction, thus substantially lowering the diode rectification factor. A series of tests was conducted to study the dependence of the photoelectric enhancement of the reverse current ΔI_r on the radiation intensity. This effect was measured as a function of x-ray tube emission current rate, the accelerating potential, and the reverse potential, with one or

Card 1/2

STEFANOVA, YE. P.

TERENT'YEV, F.A. and STEFANOVA, YE. P. (All-Union Institute of Experimental Veterinary Medicine.) On the nature of immunity in anthrax. Report 1. The significance of postvaccinal reaction in the genesis of immunity in anthrax.

So: Veterinariya; 23; (10-11); October/November 1946; Uncl.

TABCON

STEFANOVA, YE. I.

"The Nature of Immunity to Anthrax," Veterinariya (Veterinary Medicine),
4, 4-7, 1947

F
STEPANOVA, E. P.

All-Union Institute of Exptl. Vet. Medicine

"On the substance of immunity in anthrax. Vaccination of rabbits
guinea pigs and white mice with killed culture of Bac. anthracis."

SO: Vet. Zh(3) 1947, p 4